

## 14220000 LAKE MERWIN NEAR ARIEL, WA

LOCATION.-- Lat 45°57'23", long 122°33'13", in SW  $\frac{1}{4}$  SW  $\frac{1}{4}$  sec.34, T.6 N., R.2 E., Clark County, Hydrologic Unit 17080002, on left bank on Merwin Dam on Lewis River at Ariel, and at mile 19.6.

DRAINAGE AREA.--730 mi<sup>2</sup>.

PERIOD OF RECORD.--March 1931 to current year.

GAGE.--Water-stage recorder and long distance indicator in powerhouse. Datum of gage is NGVD of 1929 (levels by PacifiCorp).

REMARKS.--Hourly elevations for the year were furnished by PacifiCorp. Reservoir is formed by combination gravity-concrete-arch dam; some storage began March 1931; completed May 13, 1931. Usable capacity, 245,600 acre-ft between elevations 165 ft, lower limit of regulation set by Federal Energy Regulatory Commission, and 235 ft, top of spillway gates. Additional storage of 18,200 acre-ft is provided by flashboards to elevation 239.6 ft. Unused storage below elevation 165 ft, 159,000 acre-ft. Figures given herein represent total contents. Water is used by PacifiCorp for power generation. Capacity table furnished by PacifiCorp.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents during the period 1931-52 not determined; maximum since 1953, 424,000 acre-ft Jan. 24, 1959, elevation 239.86 ft; minimum contents observed since reservoir was first filled, 164,200 acre-ft, Dec. 5, 1936, elevation 166.7 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 422,100 acre-ft, July 13, elevation 239.43 ft; minimum contents 364,300 acre-ft, Apr. 28, elevation 224.48 ft.

## MONTHEND ELEVATION AND CONTENTS AT 2400, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	232.54	395,000	--
Oct. 31.....	236.87	412,000	+17,000
Nov. 30.....	233.35	398,200	-13,800
Dec. 31.....	232.63	395,400	-2,800
CAL YR 2001.....	--	--	+13,800
Jan. 31.....	237.36	413,900	+18,500
Feb. 28.....	239.02	420,500	+6,600
Mar. 31.....	231.88	392,500	-28,000
Apr. 30.....	225.99	370,000	-22,500
May 31.....	238.00	416,400	+46,400
June 30.....	237.93	416,200	-200
July 31.....	236.85	411,900	-4,300
Aug. 31.....	234.90	404,200	-7,700
Sept. 30.....	234.57	402,900	-1,300
WTR YR 2002.....	--	--	+7,900